## CLAIMS

- 1. A reversing train positioning system for engaging and moving a railroad car or a trip of coupled cars by engaging bogey wheel truck frames from one side comprising:
  - (a) a dog carriage guideway spaced from and parallel to a railroad track;
  - (b) a dog carriage mounted to operate along said guideway;
  - (c) a carriage drive system including a motor mounted on said dog carriage for operating said dog carriage along said guideway;
  - (d) a first dog member pivotally attached to said dog carriage mounted to pivot in a generally horizontal plane between a retracted position and an extended position wherein said first dog member is positioned to engage a proximate bogey wheel truck frame in a first direction and be deflected by said bogey frame in said first direction in the event that a force limit is exceeded;
  - (e) a second dog member pivotally attached to said dog carriage in opposed spaced relation to said first dog member mounted to pivot in a generally horizontal plane between a retracted position and an extended position wherein said second dog member is positioned to engage said bogey wheel truck frame in a second direction and be deflected by said bogey frame in said second direction in the event that a force limit is exceeded;
  - (f) a first actuating device for pivoting said
     first dog member;
  - (g) second actuating device for pivoting said

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second dog member, whereby said first and second dogs and actuating devices operate independently; and

- (h) flexible supply system attached to move with said carriage and supply operating power to said carriage.
- 2. A train positioning system as in claim 1 wherein each dog is operated by a double-acting fluid cylinder and wherein said flexible supply system further supplies operating fluid power to said carriage.

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- 3. A train positioning system as in claim 1 wherein said first and second dogs are mounted to pivot toward each other when deployed.
- 4. A train positioning system as in claim 2 wherein said first and second dogs are mounted to pivot toward each other when deployed.
- 5. A train positioning system as in claim 1 wherein each dog is operated by a corresponding fluid cylinder in a manner such that when a dog is fully deployed, a corresponding fluid cylinder rod is fully retracted and the dog pulls against a retracted cylinder rod when engaging a bogey frame and extends said associated cylinder rod when it is deflected by said bogey frame.
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  6. A train positioning system as in claim 2
  wherein each dog is operated by a corresponding fluid
  cylinder in a manner such that when a dog is fully
  deployed, a corresponding fluid cylinder rod is fully
  retracted and the dog pulls against a retracted cylinder
  rod when engaging a bogey frame and extends said
  associated cylinder rod when it is deflected by said
  bogey frame.
  - 7. A train positioning system as in claim 4 wherein each dog is operated by a corresponding fluid

cylinder in a manner such that when a dog is fully deployed, the corresponding fluid cylinder rod is fully retracted and the dog pulls against a retracted cylinder rod when engaging a bogey frame and extends said associated cylinder rod when it is deflected by said bogey frame.

8. A train positioning system as in claim 1 wherein said carriage drive system comprises a single tension chain engaged by gears driven by said motor.

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- 9. A train positioning system as in claim 7 wherein said carriage drive system further comprises a tensioning system for controlling tension in said tension chain.
- 10. A train positioning system as in claim 8 wherein said tension control system further includes a pair of spaced, oppositely disposed pressurized cylinders.
- 11. A train positioning system as in claim 9 wherein said tension control system further comprises a device for adjusting the relative position of at least one of said cylinders for use in installing said tension chain.
- 12. A train positioning system as in claim 1 further comprising a non-contact detector for detecting the presence of a bogey frame in the vicinity of said carriage.
- 13. A train positioning system as in claim 11 wherein said detector is optical.
- 14. A train positioning system as in claim 11 wherein said detector includes a proximity detecting device.
  - 15. A train positioning system as in claim 1 further comprising detectors for indicating the position of each of said dogs.

- 16. A train positioning system as in claim 1 wherein said motor is a hydraulic motor.
- 17. A train positioning system as in claim 1 wherein said carriage further carries a hydraulic system on board.
- 18. A train positioning system as in claim 5 wherein said carriage further carries a hydraulic system on board.
- 19. A method of positioning a train using the 10 system of claim 1 including the steps:

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- (a) using a non-contact detector for detecting the presence of a bogey frame in the vicinity of said dog carriage;
- (b) confirming that the dogs are retracted prior to step (a); and
- (c) deploying a single appropriate dog upon the detection of a proximate bogey frame.